(c) if so, the names of such places along with the amount to be spent for the purpose?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTI MEHTA):(a) Government of India and His Majesty Government (HMG) of Nepal have entered into Mahakali Treaty in 1996 for the development of potential of Mahakali River. Pancheswar Multi purpose Project will be the center-piece of this Treaty. There is also an understanding between the two countries for preparation of the detailed Project Reports for Sapta Kosi and Sun Kosi Multi-purpose Project and Burhi Gandaki Hydro-elctric Project in Nepal and this will be finalized through a Letter of Exchange and Memorandum of Understanding (MoU). Further, the Upper Karnali Project (300 MW) is under discussion by NHPC with HMG, Nepal for implementation under HMG, Nepal Hydro Power Policy, 2001.

(b) and (c) For the Pancheswar multi-purpose Project, Survey has been conducted by the Joint Project Office at Pancheshwar, Rupaligad and Purnagiri on both side of border at a cost of above Rs. 14.58 Cr. For the Kosi and Burhi Gandhaki projects, discussions are under way so that survey work could begin soon.

Power projects of NHPC

1669. SHRI SURENDRA LATH: Will the Minister of POWER be pleased to state:

(a) the number of power projects presently at hand with the National Hydroelectric Power Corporation (NHPC);

(b) the estimated cost and potential of those Hydro Power Projects, State-wise and proejct-wise; and

(c) the progress of each project as on date?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTI MEHTA): (a) National Hydroelectric Power Corporation (NHPC) have so far 9 Operation projects with 2375 MW, 8 projects under construction with 4322 MW, 13 projects with 11266 MW under Detailed Project Report and Infrastructure development stage and 7 projects with 14421 MW under Survey and Investigation stage.

SI. No.	Projects	Installed Capacity (MW)	Completion Cost (Rs. in Crores)	Year of Commissioning
1.	BairaSiuMH.R)	180	148.08	1981
2.	Loktak (Manipur)	105	135.68	1983
3.	Salal-I (J and K)	345	651.48	1987
4.	TanaKpur (Uttaranchal)	120	379.17	1992
5.	Chamera-I (HP)	540	2114.02	1994
6.	Salal-I 1 (J and K)	345	307.68	1996
7.	Uri (J and K)	480	3300	1997
8.	Rangit (Sikklm)	60	492.26	1999
9.	Chamera-ll (H.R)'	200		2003
	Total	2375		

*One Unit has been commissioned and is in commercial operation *w.e.f.* 2.11.2003. Second Unit Commissioned on 5.12.2003 and 3rd Unit will be commissioned shortly.

(b) and (c) The details of ongoing projects are given in Statement (See below). NHPC Projects (State wise) other than operational and ongoing projects along with estimated cost and present status are given in Statement II.

Statement I

Ongoing Projects of NHPC

SI. No.	Name of the Project	Capacity (twlW)	Latest Sanctioned Cost	STATUS
1	Dulhasti, J and K	390	3559.77(11/96 PL) 4227.92® (11/01 PL)	All project components have been completed except Head Rest Tunnel (HRT). Efforts are being made to complete the project by March 2004.
2	Dhauliganga-I Uttaranchal	280	1578.31 (8/99 PL)	Project under active construction and scheduled for

SI. No.	Name of the Project	Capacity (MW)	Latest Sanctioned Cost	STATUS
				commissioning by Mar. 2005.
3	Teesta-V, Sikkim	510	2198.05 (4/99 PL)	Project under active construction and scheduled for commissioning by Feb. 2007.
4	Loktak D/S, Manipur	90	578.62 '(8/99 PL)	Work could not be started due to security problems.
5	Parbati-ll, HP	800	3919.59 (12/01 PL)	Project under active construction.
6	Subansiri Lower, Aru Padesh	2000	6285.33 (12/0 PL)	Govt. Sanction letter was issued on 9.09.2003 for execution of project in Central Sector through NHPC. Infrastructure works are in progress. The project is scheduled to be commissioned in Sept. 2010.
7	Sewa-ll, J&K	120	665.46 (9.02 PL)	Govt. Sanction letter was issued on 08.09.2003. Major civil works awarded on 9.9.2003. Hydro mechanical and electro-mechanical works likely to be awarded during 2003-04.
8	Teesta Low dam-Ill, W.B.	132	768.92 (12/02 PL)	Govt. Sanction letter was issued on 30.10.2003. Major Civil works awarded.

Statement-ll

NHPC Projects (State-wise) other than operational and on going Projects

Sl. No.	Name of Projects	Capacity (MW)	State Wise Project Details Estimated Cost Price (Rs. in cr.)	Level	Status Cost
1	2	3	4	5	6
Arunachal Pradesh					
1	Subansiri Middle	1600	6406.18 Alt-I 7579.67 (Alt-ll)	June-02 Alt-I Jun-02	Feasibility Report has been prepared by NHPC and submitted to Central Electricity Authority for ascertaining commercial viability. NHPC has been advised by Central Electricity Authority (CEA) to prepare the Detailed Project Report (DPR) and take upessential infrastructure work.
2	Subansiri	2000	8753.06 10157.01 (Alt-ll)	June-2 Jun-02	DPR is underpreparation by NHPC. Site clearance rejected by the Ministry of Environment and Forests (MOEF) MOEF has been requested for reconsideration of the case of site clearance.
3	Siang Middle	1000	4699.81	Aug-03	Site clearnce Stage-I and II by MOEF are available on 25.08.2003. DPR submitted to CEA on 16.9.2003 for techno-economic clearance.
4	Dibang	3000			Investigation works for preparation of DPR have been taken up by NHPC. DPR under preparation and shall be submitted by Jan. 2004.

1	2	3	4	5	6
5	Siang Lower	1700	-		The issue regarding the estimates for Stage-I of the project is being discussed between CEA and NHPC.
6	Siang Upper	11000	-		Investigation work for preparation of Feasibility Report is under progress.
Himachal Pradesh					
1	Parbati-lll	520	2228.41	Jul-03	DPR has been prepared by NHPC and CEA has accorded Techno Economic Clearance on 12.11.2003. Infrastructure works are under progress.
2.	Chamera-lll	231	1384.18	Oct-03	DPR has been prepared by NHPC and CEA has accorded Techno-Economic Clearance on 10.10.2003. Infrastructure works are under progress.
Jharkhand					
1	Koel Karo	710	2654.25	Sep-03	Initially the project could not be started due to local resistance regarding rehabilitation, land acquisition and paucity of fund. Now start of works and sanction of 3rd revised cost estimate is pending for want of fresh survey of rehabilitation and resettlement is to be taken up by State Government as directed by Ministry of Environment and Forests and pending signing

1	2	3	4	5	6
					of Power Purchase Agreement (PPA) by State Govt, for purchase of power from this project.
Jammu and Kashmir					
1	Uri-ll	240	1946.09	Jul-03	DPR submitted on 29.08.2003 to CEA for accord of Techno economic Appraisal. Techno-economic Appraisal meeting held on 25.11.03. Infrastructure works are under progress.
2	Bursar	1020	4378.19	Apr-01	Commercial viability has been ascertained by CEA. Survey and Investigation works are suffering on account of adverse law and order situation. The scheme is under review alongwith Pakal Dul project. Stage-ll work is being continued.
3	Pakal Dul	1000	3480.14	Apr-01	DPR is under preparation. The adverse law and order situation is causing delay. NHPC has reviewed the project proposal earlier prepared by Central Water Commission (CWC) and submitted a modified. The proposal is under examination by CWC/CEA.
4	Nimoo Bazgo	45	593.01	Nov-02	Commercial viability asscertained by CEA. Site Clearance Stage-ll has been accorded by MOEF on 01.04.2003. DPR submitted to CEA on 8.12.2003 for Techno-economic Appraisal.
5	Chutak	30	543.00	Jun-03	Feasibility Report submitted to CEA on

1	2	3	4	5	6
					1.07.2003 for ascertaining Commercial Viability. Site clearance Stage-I and II were accorded on 1.11.01 and 9.10.03 respectively. DPR will be submitted to CEA by Mar. 04.
6	Kishenganga	330	3309.55	Aug-03	CEA has issued Techno-economic Appraisal *vide* letter dated 06.08.2003 Draft PIB memo submitted to MOP on 6.10.2003.
Karnataka					
1	Upper Krishna Project	810	984.59	Sep-03	Feasibility Report submitted to CEA on 26.09.03 for 270 MW and to Planning Commission on 13.10.03 for In-Principle clearance. Planning Commission has denied in principle clearance on 13.11.03.
Maharashtra					
1	Bav-ll	37	214.21	Mar-03	Feasibility Report as well as Revised Feasibility Report have been declared Commercially Un-viable by CEA *vide* letters dated 31.7.2002 and 23.5.2003 respectively as tariff being too high. CEA suggested for further review of Cost Estimate to bring down the tariff to a reasonable level and to optimise the power benefits from the project. The new cost estimate is under preparation.

1	2	3	4	5	6
2 Bav-I	18	—			Survey and investigation works preparation of Feasibility Report has been taken up by NHPC, which are in progress.
3 Devade	6	—			Survey and investigation works for preparation of Feasibility Report in progress.
Madhya Pradesh					
1 Indira Sagar	1000	3527.54		Sep-00	The construction of all the project components are going as per schedule and the project is expected to be commissioned by May, 2005.
2 Omkareshwar	520	2041-93		Nov-02	The project has been sanctioned on 29.5.2003. Agreement signed on 18.7.2003. Construction works has been started.
Manipur					
1 LoktakD/S*	90	578.62		Apr-99	Work could not be started due to security problems.
Uttranchal					
1 Lakhwar Vyasi	420				MOU has been signed on 01.11.2003 between NHPC, Govt, of Uttranchal and Uttranchal Jal Vidyut Nigam Limited (UJVNL) for the execution of the project under Central Sector through NHPC.

1	2	3	4	5	6
2 Kotli Bhel	850				MOU has been signed on 22.09.2003 between Govt, of Uttranchal and NHPC for the execution of the project under Central Sector through NHPC.
West Bengal					
1 Teesta Low Dam St.-IV	168*	1114.26	Jul-03		DPR submitted to CEA (160 MW) on 15.9.2003. Site Clearance Stage-ll accorded on 20.10.2003. Stage-ll works being carried out.
2 Purulia Pumped Storage	900	3157.25	Jan-03		As per the directions of the Ministry of Finance, NHPC has submitted the revised draft note for consideration by the Public Investment Board (PIB) at November 2003 price level.

* The installed capacity as submitted in DPR is 160 MW.